

## CTE Standards Unpacking Maintenance and Light Repair

**Course:** Maintenance and Light Repair

**Course Description:** This is an entry level course where students will learn basic maintenance procedures and safe work practices. The desire for the students to receive industry-based training at the basic level and step up to the higher level of competency in this field is the ultimate goal of this course. Students who complete this course should be able to test for their ASE certification in this field.

Career Cluster: Transportation, Distribution & Logistics

**Prerequisites:** Any foundation course – Maintenance and Light Repair (MLR) – Any advanced course

**Program of Study Application:** Maintenance and Light Repair is a cluster course in the transportation, distribution and logistics career cluster. Success in Maintenance and Light Repair will prepare a student to enter any of the pathways in the cluster.

## INDICATOR #MLR 1: Students will demonstrate safety practices for automotive repair.

**SUB-INDICATOR 1.1 (Webb Level: 2 Skill/Concept):** Identify and demonstrate general shop safety rules and procedures using Occupational Safety and Health Administration (OSHA) standards

Administration (OSHA) sta	ndards	
Knowledge (Factual):	Understand (Conceptual):	Do (Application):
-OSHA safety rules and	-Importance of following all	-Examine basic shop
procedures	shop safety rules and using	safety using OSHA
	personal safety equipment	standards
-Use of personal safety		
equipment		-Utilize proper
		ventilation procedures
-Safety data sheets (SDS)		for working within the
Duilding sofoty		lab/shop area
-Building safety guidelines		
guidennes		-Identify marked safety
-Emergency safety		areas
equipment location		
l I I		-Identify location and
-First aid station location		types of fire
		extinguishers and other
		fire safety equipment
		-Identify location and use
		of eyewash stations



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	-Identify location of posted evacuation routes
	-Demonstrate knowledge of industry requirements for personal protective clothing and equipment
	-Identify and wear proper clothing, hair styles and jewelry for lab/shop activities
	-Locate and demonstrate knowledge of safety data sheets (SDS)

Students will be assessed on their ability to:

Pass OHSA safety test

#### **Academic Connections**

# ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):

W.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience HS

-PS3-4 Plan and carry out an investigation to provide evidence that the transfer of thermal energy when two components of different temperature are combined within a closed system results in a more uniform energy distribution among the components in the system

# Sample Performance Task Aligned to the Academic Standard(s):

Students will write an explanation of different types of fire extinguishers and explain proper use.

Students will explain the impacts of various extinguishers and the effect that occurs on various fires



INDICATOR #MLR 2: Students will demonstrate an understanding of the safe and appropriate use of tools and equipment.

**SUB-INDICATOR 2.1 (Webb Level: 2 Skill/Concept):** Utilize safe procedures for handling of tools and equipment

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Knowledge (Factual):	Understand (Conceptual):	Do (Application):
-Correct and safe use of	-Avoid injury or damage to	-Identify and use proper
tools and equipment	property	placement of floor jacks
		and jack stands
		-Identify and use proper
		procedures for safe lift
		operation
		-Demonstrate awareness
		of the safety aspects of
		high voltage circuits
		(such as high intensity
		discharge [HID] lamps,
		ignition systems,
		injection systems, etc.)
		injection systems, etc.j
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### **Benchmarks:**

Students will be assessed on their ability to:

- Follow shop safety guidelines.
- Demonstration of equipment

### **Academic Connections**

ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):	Sample Performance Task Aligned to the Academic Standard(s):
SL1. Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led)	Students will discuss the consequences of not following safety procedures



#### INDICATOR #MLR 3: Students will locate needed information.

## SUB-INDICATOR 3.1 (Webb Level: 1 Recall):

## SUB-INDICATOR 3.2 (Webb Level: 1 Recall):

# Knowledge (Factual): -Sources of vehicle service information.

## **Understand (Conceptual):**-Importance of accurate

specs needed for proper repair or maintenance services.

## Do (Application):

- -Locate and use paper and electronic manuals
- -Locate and use Technical Service Bulletins (TSB)
- -Demonstrate awareness of special service messages, service campaigns/recalls, vehicle/service warranty applications, and service interval recommendations
- -Locate vehicle identification number (VIN) and production date code
- -Apply knowledge of VIN information
- -Demonstrate awareness of other vehicle information labels (such as tire, emissions, etc.)

#### Benchmarks:

Students will be assessed on their ability to:

• Retrieve accurate vehicle specifications and info.



Academic (	Academic Connections		
ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):	Sample Performance Task Aligned to the Academic Standard(s):		
SL1 Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led)	Students will discuss the different methodologies to gain vehicle information		

	INDICATOR #MLR 4: Students will prepare vehicle for service.		
SUB-INDICATOR 4.1 (Web	ob Level: 1 Recall): Prepare veh	nicle for service	
SUB-INDICATOR 4.1 (Web Knowledge (Factual): -Accurate repair order information -vehicle protection products	Understand (Conceptual): -Relationship of good customer service to shop profitability.	Do (Application): -Identify information needed and the service requested on a repair order  -Identify purpose and demonstrate proper use of fender covers and mats  -Demonstrate the use of the three C's (concern, cause, and correction)  -Review vehicle service history  -Complete work order with appropriate	

Students will be assessed on their ability to:

• Write a complete and accurate repair order.



and style are appropriate to task, purpose, and audience

Academic (	Connections
ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):	Sample Performance Task Aligned to the Academic Standard(s):
SL1 Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led)	Students will role play the technician and customer to simulate proper customer service

INDICATOR #MLR 5: Students will prepare vehicle for customer.			
SUB-INDICATOR 5.1 (Web	b Level: 2 Skill,	/Concept): Ensi	are vehicle is prepared to
return to the customer per	school/compar	ny policy	
Knowledge (Factual):	Understand (	Conceptual):	Do (Application):
-Returning vehicle to	-Customer ser	vice builds	-Inspect vehicle after
customer	business.		repair and remove
			protective covers
Benchmarks:	Benchmarks:		
Students will be assessed on their ability to:			
Properly complete vehicle for return to customer. (quality control check)			
	Academic (	Connections	
ELA Literacy and/or Math Standard (if   Sample Performance Task Aligned to			
applicable, Science and/or Social the Academic Standard(s):		: Standard(s):	
Studies Standard):			
W4. Produce clear and coherent writing in which the development, organization,			

	ents will perform basic vehic  b Level: 2 Skill/Concept): Perf	
Knowledge (Factual): -Basic oil change/inspection service	Understand (Conceptual): -Importance of proper maintenance for extended engine life.	Do (Application): -Determine fluid type requirements and identify fluid

service

	-Check and adjust engine
	oil
	-Check and adjust engine
	coolant level
	-Check and adjust power
	steering fluid level
	-Check and adjust brake
	fluid level
	-Check and adjust
	windshield washer fluid
	level
	-Check and adjust
	differential /transfer
	case fluid level
	-Check and adjust
	transmission fluid level
	u ansimission nuiu ievei
	-Check and replace wiper
	blades
	-Inspect drive belts,
	tensioners, and pulleys;
	check pulley and belt
	alignment
	-Inspect and replace air
	filter
	-Check and adjust tire air
	pressure
	-Inspect exhaust system
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Students will be assessed on their ability to:

- Properly perform basic engine service/inspection.
- Complete related paper work/forms.
- Maintain vehicle service history.

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## ELA Literacy and/or Math Standard (if applicable, Science and/or Social **Studies Standard):**

Sample Performance Task Aligned to the Academic Standard(s):

SL1. Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) Students will discuss value of maintaining vehicle service history

### INDICATOR #MLR 7: Students will inspect and repair engine.

**SUB-INDICATOR 7.1 (Webb Level: 2 Skill/Concept):** Test and perform actions necessary to repair engine

Knowledge (Factual):
-Inner workings an
internal combustion
engine.

-Perform engine

diagnostics

### **Understand (Conceptual):** -Relationship of accurate

engine inspection and repair

## -Demonstrate knowledge of internal combustion engine

Do (Application):

- for safety and engine longevity.
- -Inspect engine assembly for fuel, oil coolant and other leaks: determine necessary action
- -Perform cooling system pressure tests; test coolant condition; inspect and test radiator, pressure cap, coolant recovery tank and hoses; determine necessary action
- -Test cooling system for the presence of combustion gases



	-Drain and recover coolant; flush and refill cooling system with recommended coolant; bleed air as required
	-Perform oil and filter change; reset oil life monitoring system where applicable

Students will be assessed on their ability to:

- Diagnose engine related concerns.
- Determine appropriate repairs needed.
- Perform needed repairs.

Academic (	Connections
ELA Literacy and/or Math Standard (if	Sample Performance Task Aligned to
applicable, Science and/or Social	the Academic Standard(s):
Studies Standard):	
W4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Students will create a checklist that will help diagnose engine related concerns

INDICATOR #MLR 8: Students will service an automatic transmission.			
SUB-INDICATOR 8.1 (Webb Level: 2 Skill/Concept): Service transmission systemKnowledge (Factual):Understand (Conceptual):Do (Application):			
-Automatic transmission operation	-Preventative maintenance extends life of transmission.	-Drain automatic transmission fluid	
		-Visually inspect the amount of debris in oil pan	
		-Remove filter and install new filter.	
		-Install the proper fluid to the proper level	



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			-Perform transmission
			flush service
<b>D</b> 1			
Benchmarks:			
Students will be assessed on	_		
<ul> <li>Properly service aut</li> </ul>	tomatic transm	ISSIOII.	
	Academic (	Connections	
ELA Literacy and/or Matl			rmance Task Aligned to
(if applicable, Science and		the Academic	•
Studies Standard):			
SL1. Initiate and participate	•		discuss how preventative
in a range of collaborative		maintenance e	extends life of transmission
(one-on-one, in groups, and	a teacher-leaj		
INDICATOR #MLR 9: Stude	ents will inspe	ct, diagnose an	d repair manual drive
train and axles.	•	. 3	•
SUB-INDICATOR 9.1 (Web	b Level: 2 Skill,	<b>/Concept):</b> Diag	nose and repair manual
drive train and axles	IIndonetona (	(Compositive)	Do (Amplication)
<b>Knowledge (Factual):</b> -Function of individual	Understand (	vetrain service	Do (Application):
components in the		onent failures	-Diagnose fluid loss,
drivetrain system.	to avoid comp	onent famules	level, and condition
urivetralii system.			concerns
-Recognize and diagnose			-Drain and fill
drivetrain issues			transmission/transaxle
			and final drive unit
			Identify and increast
			-Identify and inspect clutch pedal linkage,
			cables, automatic
			adjuster mechanisms,
			brackets, bushings,
			pivots, and springs
			-Identify and inspect
			hydraulic clutch slave
			and master cylinders,
			lines and hoses



	-Bleed clutch hydraulic system
	-Inspect constant velocity (CV) joint boots
	-Remove and replace rear wheel drive shaft

Students will be assessed on their ability to:

• Diagnose, maintain and repair drivetrain components.

Academic Connections			
ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):	Sample Performance Task Aligned to the Academic Standard(s):		
SL1. Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led)	Students will discuss key issues to help diagnose drive train performance		

## INDICATOR #MLR 10: Students will repair suspension and steering.

**SUB-INDICATOR 10.1 (Webb Level: 2 Skill/Concept):** Diagnose suspension and steering; determine necessary action.

**SUB-INDICATOR 10.2 (Webb Level: 2 Skill/Concept):** Inspect and repair tire and wheel assembly

Knowledge (Factual):	Understand (Conceptual):	Do (Application):
-The principles of	-Safety, drive-ability and	-Flush, fill and bleed
steering geometry using	ride quality concerns	power steering system
caster, camber and toe		
	-Avoid causing damage	-Diagnose power
-Service considerations	during service process	steering fluid leakage
of vehicles equipped with		
a TPMS		-Lubricate suspension
		and steering systems
-Suspension system		_
operation		-Inspect, remove and
		replace shock absorbers

stabilizer bar bushings, brackets, and links.  -Inspect and install strut cartridge or assembly, coil spring, insulators (silencers), and upper strut mount  -Perform pre-alignment inspection and measure vehicle ride height  -Diagnose tire wear patterns  -Diagnose wheel/tire vibration, shimmy, and noise  -Identify vehicles equipped with a tire pressure monitoring system (TPMS)  -Rotate tires according to manufacturer's recommendations.  -Balance wheel and tire assembly  -Dismount, inspect, and		In an early of the end
cartridge or assembly, coil spring, insulators (silencers), and upper strut mount  -Perform pre-alignment inspection and measure vehicle ride height  -Diagnose tire wear patterns  -Diagnose wheel/tire vibration, shimmy, and noise  -Identify vehicles equipped with a tire pressure monitoring system (TPMS)  -Rotate tires according to manufacturer's recommendations.  -Balance wheel and tire assembly  -Dismount, inspect, and		_
inspection and measure vehicle ride height  -Diagnose tire wear patterns  -Diagnose wheel/tire vibration, shimmy, and noise  -Identify vehicles equipped with a tire pressure monitoring system (TPMS)  -Rotate tires according to manufacturer's recommendations.  -Balance wheel and tire assembly  -Dismount, inspect, and		cartridge or assembly, coil spring, insulators (silencers), and upper
patterns  -Diagnose wheel/tire vibration, shimmy, and noise  -Identify vehicles equipped with a tire pressure monitoring system (TPMS)  -Rotate tires according to manufacturer's recommendations.  -Balance wheel and tire assembly  -Dismount, inspect, and		inspection and measure
vibration, shimmy, and noise  -Identify vehicles equipped with a tire pressure monitoring system (TPMS)  -Rotate tires according to manufacturer's recommendations.  -Balance wheel and tire assembly  -Dismount, inspect, and		
equipped with a tire pressure monitoring system (TPMS)  -Rotate tires according to manufacturer's recommendations.  -Balance wheel and tire assembly  -Dismount, inspect, and		vibration, shimmy, and
manufacturer's recommendations.  -Balance wheel and tire assembly  -Dismount, inspect, and		equipped with a tire pressure monitoring
assembly -Dismount, inspect, and		manufacturer's
Temount the on wheel		-Dismount, inspect, and remount tire on wheel
-Repair tire using internal patch		-
-Reinstall wheel; torque lug nuts		



Students will be assessed on their ability to:

• Perform diagnose and repair steering and suspension.

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# ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):

Sample Performance Task Aligned to the Academic Standard(s):

W4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

Students will write a paragraph that explains how to avoid causing damage during service process

## INDICATOR #MLR 11: Students will inspect, diagnose and repair brake assembly.

**SUB-INDICATOR 11.1 (Webb Level: 2 Skill/Concept):** Diagnose and repair brake fluid system

**SUB-INDICATOR 11.2 (Webb Level: 2 Skill/Concept):** Inspect and repair brake shoes and drum assemblies

**SUB-INDICATOR 11.3 (Webb Level: 2 Skill/Concept):** Inspect and repair caliper assembly

**SUB-INDICATOR 11.4 (Webb Level: 2 Skill/Concept):** Inspect and repair rotor assembly

SUB-INDICATOR 11.5 (Webb Level: 1 Recall): Inspect and repair vacuum supply SUB-INDICATOR 11.6 (Webb Level: 2 Skill/Concept): Inspect and repair brake indicator light components

Knowledge (Factual):	Understand (Conceptual):	Do (Application):
-Use of vacuum pump	-Proper working systems	-Inspect brake lines,
tester	for vehicle safety.	flexible hoses, and
		fittings for leaks, dents,
-Brake warning light		kinks, rust, cracks,
system wiring and		bulging or wear; tighten
circuitry		loose fittings and
-Hydraulic brake system		support
-Brake friction		-Select, handle, and fill
components.		brake fluids to proper
components.		level
		-Bleed brake system

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	-Test brake fluid for
	contamination
	-Remove, clean, inspect
	and measure brake
	drums
	-Refinish brake drum;
	measure final drum
	diameter -Remove, clean,
	inspect brake shoes,
	springs, pins, clips, levers, adjuster/self-
	adjuster, other related
	brake hardware, and
	backing support plates;
	lubricate and reassemble
	-Inspect and install
	wheel cylinders
	Duo adiviet buelle above
	-Pre-adjust brake shoes and parking brake;
	install brake drums or
	drum/hub assemblies
	and wheel bearings
	-Install wheel, torque lug
	nuts, and make final
	checks and adjustments
	-Remove caliper
	assembly; inspect for
	leaks and damage to
	caliper housing
	-Clean and inspect
	caliper mounting and
	slides/pins for wear,
	operation and damage

-Remove, inspect and replace pads and retaining hardware; determine necessary action -Reassemble, lubricate, and reinstall caliper, pads and related hardware; seat pads and inspect for leaks -Clean, inspect and measure rotor thickness. lateral runout and thickness variation -Remove and reinstall rotor -Refinish rotor on vehicle; measure final rotor thickness -Refinish rotor off vehicle; measure final rotor thickness -Install wheel. Torque lug nuts -Check vacuum supply (manifold or auxiliary pump) to vacuum-type power booster -Inspect vacuum-type power booster unit for leaks; inspect the check valve for proper operation; verify proper booster function



	-Check parking brake
	cables and components
	for wear, binding and
	corrosion; clean,
	lubricate, adjust or
	replace as needed.
	-Check parking brake
	and indicator light
	system operation
	-Check operation of
	brake light system
	ו ו ו מ
	-Replace tapered roller
	wheel bearing and race
	-Clean, inspect, lubricate,
	install and adjust wheel
	bearing
	-Identify and inspect
	electronic brake control
	system components
	*
Benchmarks:	 

Students will be assessed on their ability to:
• Perform diagnostics and repair on brake system.

### Academic Connections

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ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):	Sample Performance Task Aligned to the Academic Standard(s):	
W4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Students will create a checklist that illustrates possible causes for wheel noise	



INDICATOR #MLR 12: Students will inspect, test and repair electrical/electronic systems.

SUB-INDICATOR 12.1 (Webb Level: 1 Recall): Diagnose electrical circuit problems SUB-INDICATOR 12.2 (Webb Level: 2 Skill/Concept): Inspect and repair battery problems

SUB-INDICATOR 12.3 (Webb Level: 2 Skill/Concept): Diagnose and repair starter SUB-INDICATOR 12.4 (Webb Level: 2 Skill/Concept): Diagnose and repair charging system

## Knowledge (Factual):

- -Electrical/electronic systems
- -Causes and effects of shorts, grounds, opens and resistance problems in electrical/electronic circuits
- -Wiring diagrams
- -The proper use of a digital multimeter (DMM)

## **Understand (Conceptual):**

-Electrical technology is heavily integrated into modern vehicles.

### Do (Application):

- -Diagnose electrical/electronic integrity of series, parallel and seriesparallel circuits using principles of electricity (Ohm's Law)
- -Check electrical circuits with a test light
- -Check electrical circuits using fused jumper wires
- -Measure key-off battery draw (parasitic draw)
- -Inspect and test fusible links, circuit breakers and fuses
- -Inspect and test switches, connectors, relays and wires of electrical/electronic circuits
- -Repair connectors and terminal ends
- -Perform solder repair of electrical wiring

	-Perform battery state-
	of-charge test
	-Perform battery
	capacity test; confirm
	proper battery capacity
	for vehicle application
	-Maintain or restore
	electronic memory
	functions
	Inchest clean fill
	<ul><li>-Inspect, clean, fill, and/or replace battery,</li></ul>
	battery cables,
	connectors, clamps and
	hold-downs
	noid downs
	-Perform battery charge
	y o
	-Start a vehicle using
	jumper cables and a
	battery or auxiliary
	power supply.
	-Perform starter current
	draw tests
	D C
	-Perform starter circuit
	voltage drop tests
	-Inspect and test starter
	relays and solenoids
	relays and solenoids
	-Remove and replace
	starter
	-Perform charging
	system output test
	-
	-Remove and replace
	generator (alternator)
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	-Diagnose the cause of	
	dim, or no light	
	operation	
	-Inspect, replace, and aim headlights and bulbs	
Benchmarks:		
Students will be assessed on their ability to:		
Perform diagnostics, maintenance and repair on electrical/electronic		
systems.		

Academic Connections		
ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):	Sample Performance Task Aligned to the Academic Standard(s):	
W4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Students will create an inspection checklist to perform electrical system repair	
A-CED4. Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.	Students will create a mathematical model representing the electrical system	

INDICATOR #MLR 13: Stuair conditioning.	dents will inspect, diagnose a	and repair heating and	
<b>SUB-INDICATOR 13.1 (Webb Level: 2 Skill/Concept):</b> Identify and visually inspect A/C system components			
Knowledge (Factual): -Air condition system (A/C) -Heating system	Understand (Conceptual): -Vehicle passenger comfort	Do (Application): -Locate refrigerant label and identify specified refrigerant type (e.g., R12, R-134a)	
		-Conduct performance test of the heater/ventilation system	



Studies Standard):			
(if applicable, Science and/or Socia	the Academic Standard(s):		
ELA Literacy and/or Math Standard	Sample Performance Task Aligned to		
Academic Connections			
Benchmarks: Students will be assessed on their ability to:  • Perform diagnostics and repair on heating and air conditioning system.			
	-Inspect and replace cabin air filter		

W4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

Students will create a diagram that illustrates all AC system components

-Perform cylinder

-Verify engine operating

leakage test

temperature

INDICATOR #MLR 14: Students will inspect, diagnose and improve engine performance. SUB-INDICATOR 14.1 (Webb Level: 2 Skill/Concept): Perform the necessary tests and repairs to improve engine performance Understand (Conceptual): **Knowledge (Factual):** Do (Application): -Perform engine -proper engine function -To make vehicle run as designed. cranking and running -diagnostics with scan vacuum tests tool -Perform cylinder power balance test -Perform cylinder cranking compression test

	-Retrieve and record stored diagnostic trouble codes, On-Board Diagnostics (OBD) monitor status and freeze frame data
	-Obtain and interpret scan tool data.
	-Perform fuel pressure test
	-Replace fuel filters.
	-Remove and replace secondary ignition components
	-Remove and replace thermostat and gasket/seal
	-Perform common fastener and thread repair, to include: removing broken bolt, restoring internal and external threads, and repairing internal threads with a threaded insert1
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Students will be assessed on their ability to:

• Diagnose and make needed repairs to improve engine performance.



Academic Connections		
ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):	Sample Performance Task Aligned to the Academic Standard(s):	
SL1. Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led)	Students will discuss the various factors that impact engine performance	

INDICATOR #MLR 15: Students explore career opportunities in the transportation, distribution and logistics career cluster and develop leadership skills.

**SUB-INDICATOR 1.1 (Webb Level: 1 Recall):** Research career opportunities in the transportation, distribution and logistics (TD&L) fields

transportation, distribution and logistics (TD&L) fields		
Knowledge (Factual):	Understand (Conceptual):	Do (Application):
-Career options available	-Verify desire for an auto	-Utilizing career
	repair career.	exploration software,
		research and write a
		report on career
		opportunities in the
		TD&L field
		-Utilizing career
		exploration software,
		research educational
		requirements for a
		chosen career path
		-Utilizing career
		exploration software,
		update the student's
		portfolio
	1	1



Students will be assessed on their ability to:

• Develop a portfolio on the chosen career

#### **Academic Connections**

# ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):

W7. Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.

## Sample Performance Task Aligned to the Academic Standard(s):

Students will create a power point presentation comparing possible career options

#### **Additional Resources**

Please list any resources (e.g., websites, teaching guides, etc.) that would help teachers as they plan to teach these new standards.